

# **GUN · KIT**

## **MANUAL**



**FOR INSTALLATION IN**

**Any UniSystem™ or DualSystem™ cabinet**

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### **WARNING**

The gun for this game is made of a metal frame encased in rubber. It has been designed by Nintendo to prevent injury to players or damage to the video monitor and game cabinet. However, there are risks if this game is used improperly. These risks and the steps you should take to avoid them are as follows:

1. The gun could be removed from its cable by acts of vandalism and thereafter misused. When the power to the game is "on," an alarm will sound if the gun is removed from its cable or the cable is removed from the cabinet. A warning sticker alerting players to this alarm is posted on the metal holster. Replacement stickers may be obtained from any Nintendo distributor. A security chain may also be attached to the butt of the gun and anchored to the cabinet (see Instruction Manual). The game should be placed where its operation can be monitored at all times.
2. The gun could be mistaken for a real gun. Do not place this game where players operating it or pointing the gun may be mistaken by the police or public.

THIS WARNING MUST BE POSTED ON  
THE BACK OF THE GAME CABINET.  
(LABEL INCLUDED IN KIT)  
NINTENDO OF AMERICA INC.  
REDMOND, WASHINGTON  
1-800-633-3236

## I. Contents of Gun Kit

PARTS NAME	QUANTITY	REMARKS
Gun	1	Complete Assembly
Holster	1	
Cable Clamp Assembly	1	
M4 x 6 Hex Head Cap Screw	4	
M5 x 8 Hex Head Cap Screw	4	
Holster Bracket	1	
Backing Plate	1	
M4 x 15 Carriage Bolt	4	
M6 x 30 Carriage Bolt	2	
M4 Cap Nut	4	
M6 Cap Nut	2	
062-4A Gun Power Harness	1	
062-15P Short Harness	1	
3mm Hex Wrench	1	
Alarm Sticker	1	
Warning Notice	1	
Sticker Tie Down	1	
Security Chain Retainer Kit	1	
Chain Retainer G	1	For Gun
Chain Retainer CP	1	For Control Panel
Rivet	1	
Hammer Drive Screw	1	

## **II. List of Tools Needed For Installation of Gun**

7mm or 8/32" nut driver  
10mm nut driver  
electric drill  
1/4" drill bit  
3mm hex wrench (provided)  
staple gun  
small wire cutters  
hammer (optional)

### III. Installation of Gun Assembly

CAREFULLY READ ALL STEPS BEFORE BEGINNING

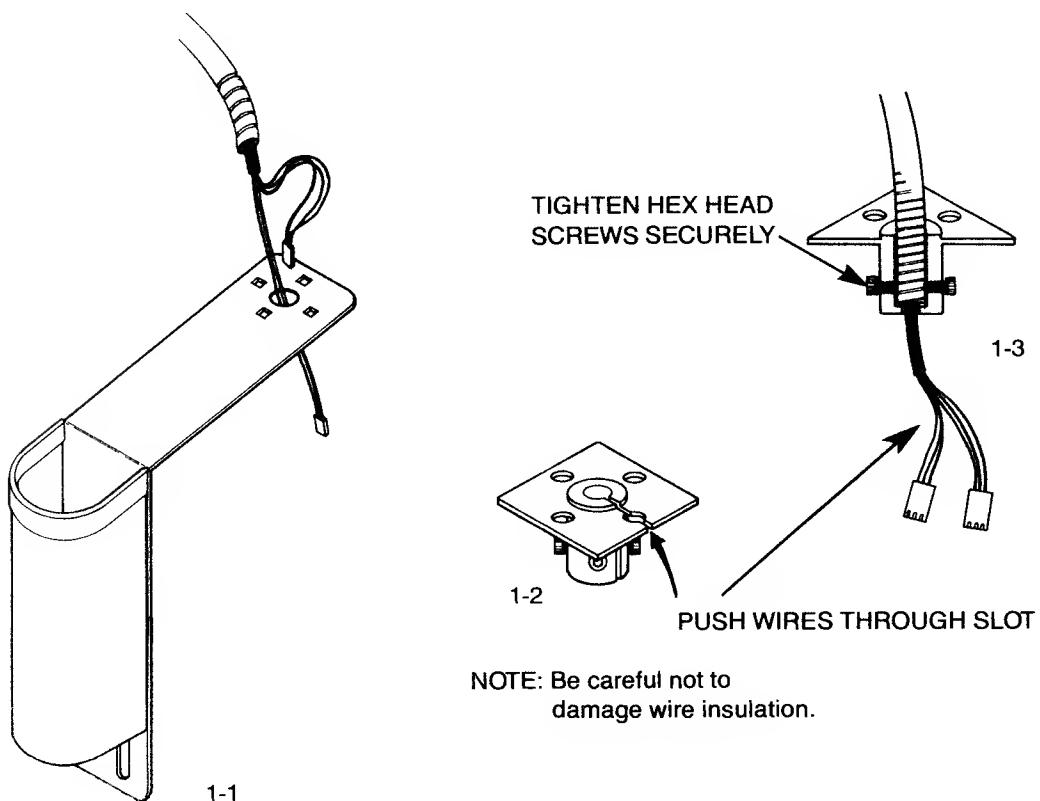
#### 1) Removal of Right Joystick

- A. Remove the control panel that the gun is to be installed into and disconnect the 15 pin and 12 pin control panel connectors.
- B. Remove the eight (8) connectors from the right joystick assembly.
- C. Remove the four (4) M4 cap nuts and the joystick assembly.
- D. **IMPORTANT:** Reinstall the two (2) carriage bolts and cap nuts into the empty holes which are closest to the front screen side of the control panel. Be sure to save the remaining carriage bolts and cap nuts so you can install the joystick again later.

#### 2) Installation of Gun and Holster to Control Panel

- A. Push the two (2) connectors on the end of the gun cable through center hole of the holster one at a time. (See illustration 1-1)
- B. Pull about 6" of cable through the hole in the control panel vacated by the joystick.
- C. Slide the individual colored wires through the slot in the cable clamp assembly. (See illustration 1-2)
- D. Push the gun cable into the cable clamp assembly until it contacts the bottom, and secure the cable with four (4) M4 x 6 hex head bolts and the M3 hex wrench provided. (See illustration 1-3)

NOTE: Please keep M3 hex wrench with game for any future maintenance.



- E. Using four (4) M4 x 15 carriage bolts and M4 cap nuts, bolt the control panel in between the holster and cable clamp assembly. (See illustration 1-4)
 

NOTE: If you wish to add the additional security chain, see Step 6 on page 7 before continuing.

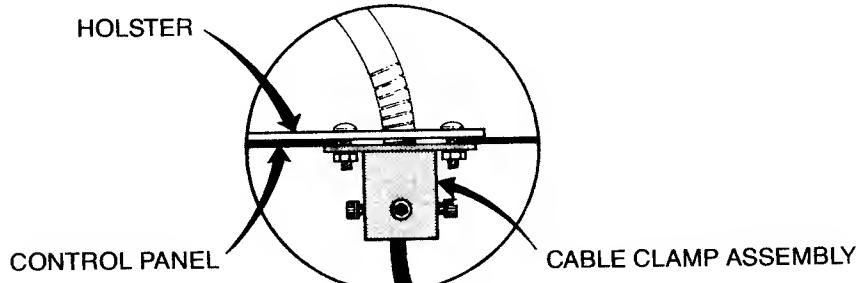
Be sure that the holster is perpendicular to the control panel and tighten the four (4) cap nuts securely.
- F. Install the sticker tie down next to the existing tie down, near the edge of the control panel, and fasten down the excess gun wire.

3) Installation of Holster Bracket

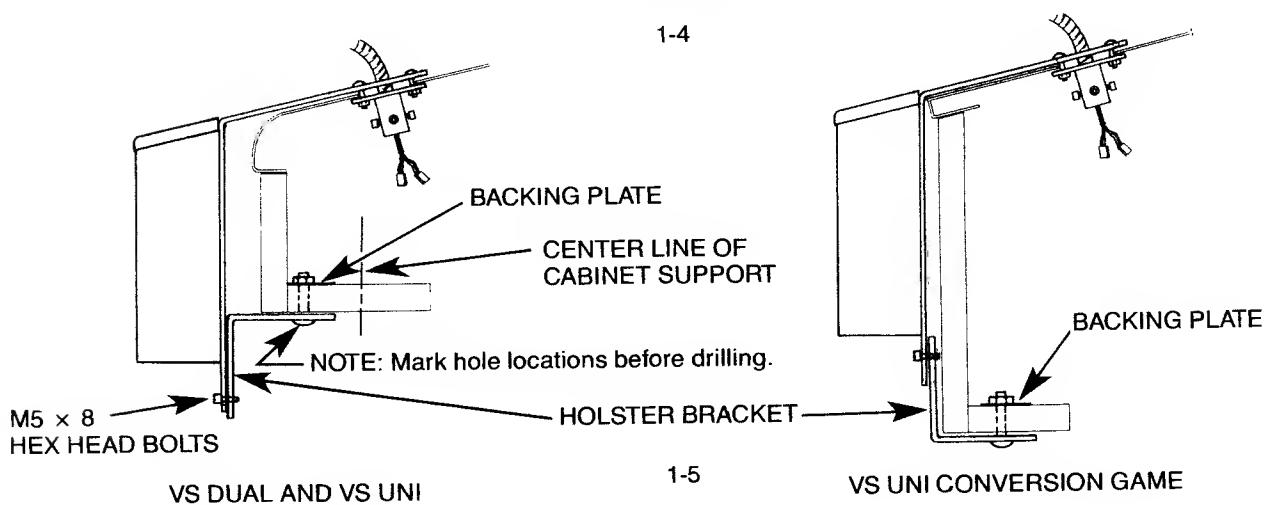
- A. Fasten the control panel onto the cabinet.
- B. Hold the holster bracket on the bottom of cabinet front. Align the threaded holes to the slots in the holster and mark location of the four (4) square holes on bottom of cabinet. (See illustration 1-5)
- C. Remove the control panel and drill two (2) 1/4" holes at the locations marked.

NOTE: Choose the two (2) holes which are closest to center line of the cabinet support. (See illustration 1-5)

Using two (2) M6 x 30 carriage bolts and backing plate, bolt holster bracket into place.



1-4

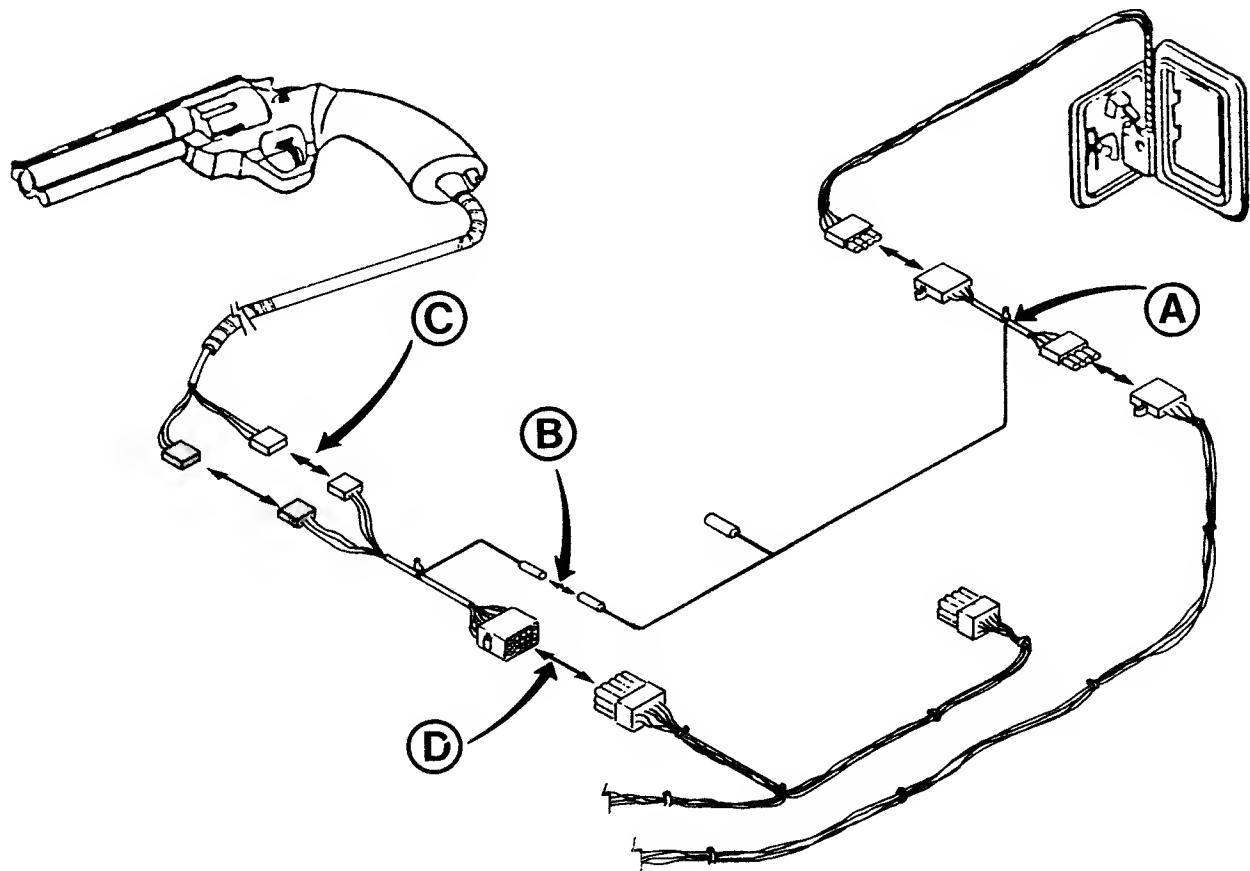


1-5

VS UNI CONVERSION GAME

#### 4) Installation of Control Panel and Harness

- A. Disconnect the 4 pin coin switch harness and connect the 4 pin gun power harness in between. (See illustration 1-6 A)  
  
NOTE: Be sure to use the 4 pin coin switch harness, not the 4 pin service switch harness.
- B. Connect either of the 1 pin connectors from the gun power harness to the 1 pin connector on the 15 pin short harness. (See illustration 1-6 B)
- C. Connect the red 3 pin connector and the white 3 pin connector to the matching connector from the gun. (See illustration 1-6 C)
- D. Connect the 15 pin connector to the main control harness. (See illustration 1-6 D)
- E. Install the control panel and fasten down the control panel clamps.
- F. Fasten down the holster to the holster bracket with 2 or 4 M5 × 8 hex head bolts (depending on cabinet). (See illustrations 1-5)



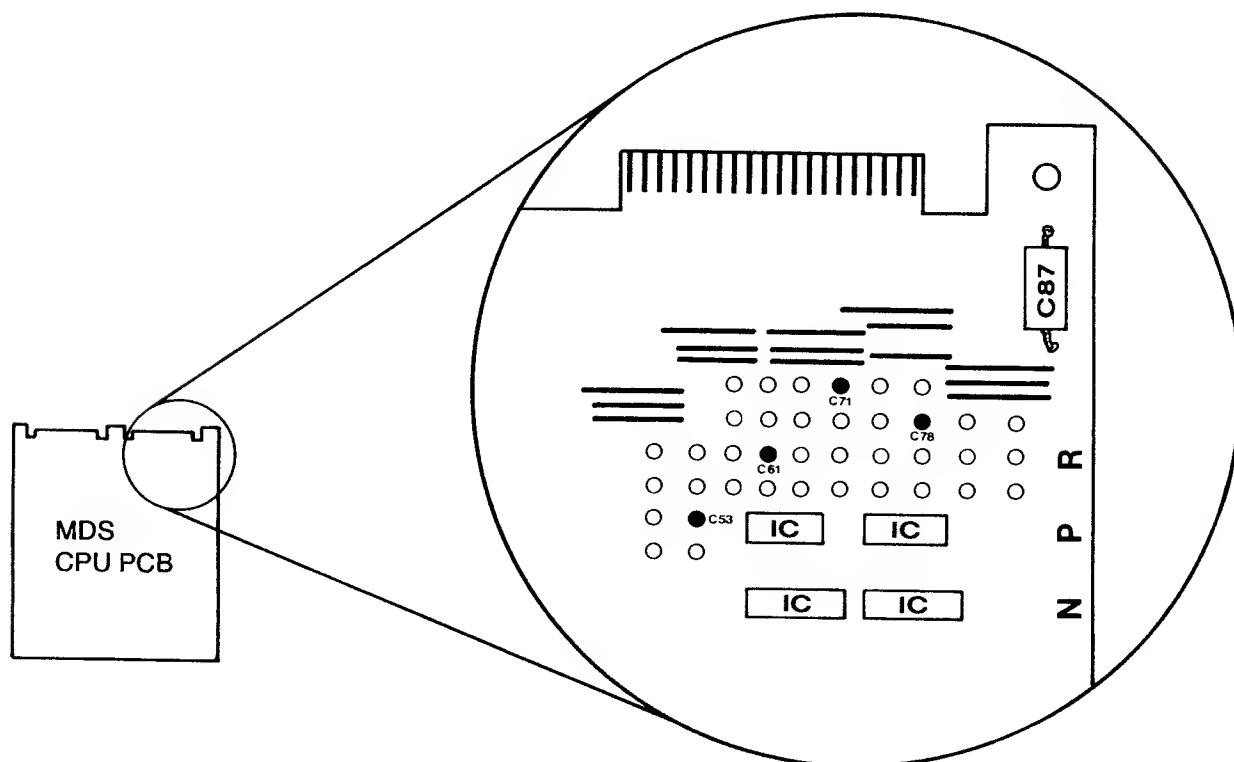
## 5. P.C. Board Modification

**NOTE: Important!** The game will not operate without this modification.

- A. Using a small pair of wire cutters, clip off the capacitors in locations C53, C61, C71 and C78. (See illustration 1-7)

**CAUTION: BE CAREFUL TO CUT OFF THE CORRECT CAPACITORS ONLY.**

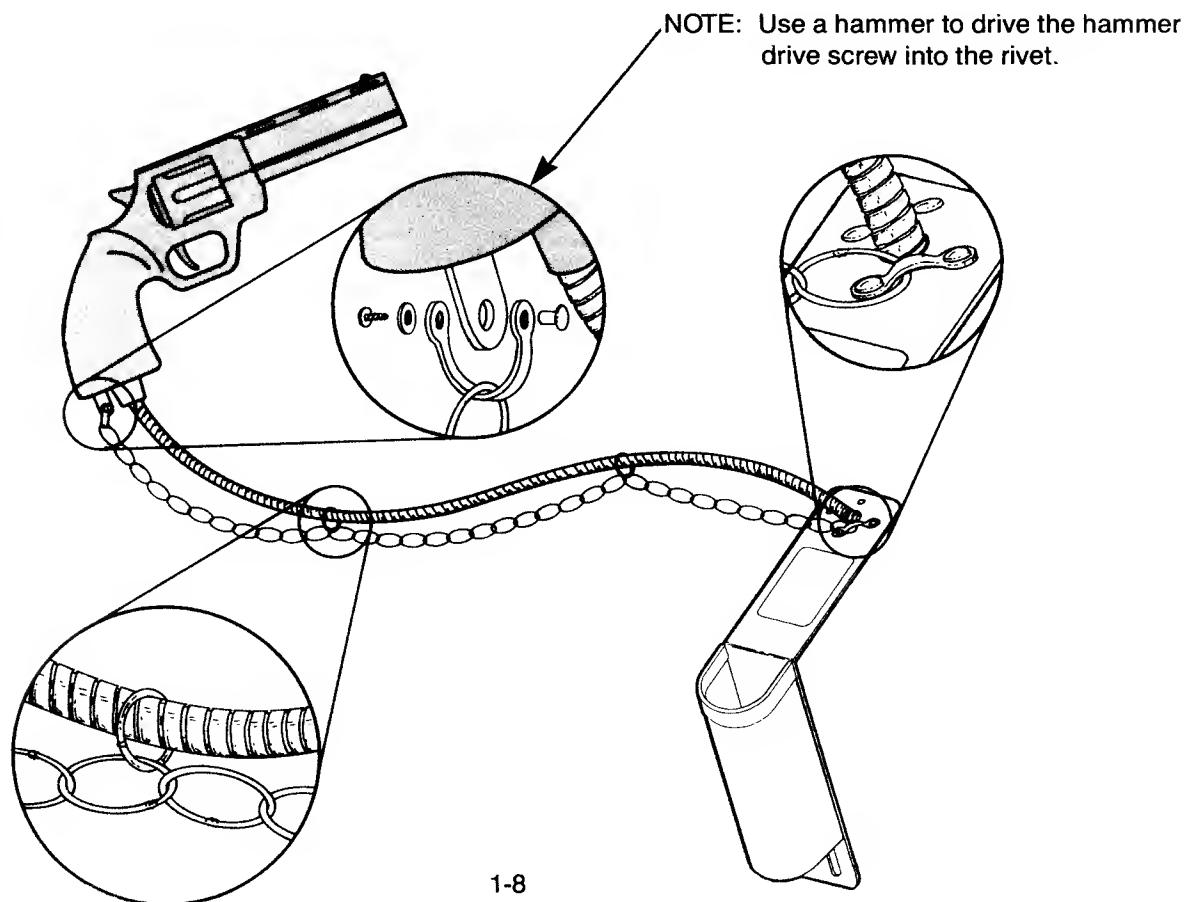
**NOTE:** This modification will not affect any future V.S.-Pak games.



6) OPTIONAL: Security Chain Installation

**NOTE: Parts are provided to attach an additional chain between the gun and the control panel to control theft in unmonitored locations. THE CHAIN ITSELF IS NOT PROVIDED.**

- A. You should purchase approximately 33 3/4" of straight link coil chain or equivalent. After installation, the chain should be 1/2" shorter than the gun cable.
- B. Attach the chain to the control panel and to the gun as shown. (See illustration 1-8)
- C. For a better appearance, chain should also be attached to cable with two (2) metal rings as shown (not provided). (See illustration 1-8)

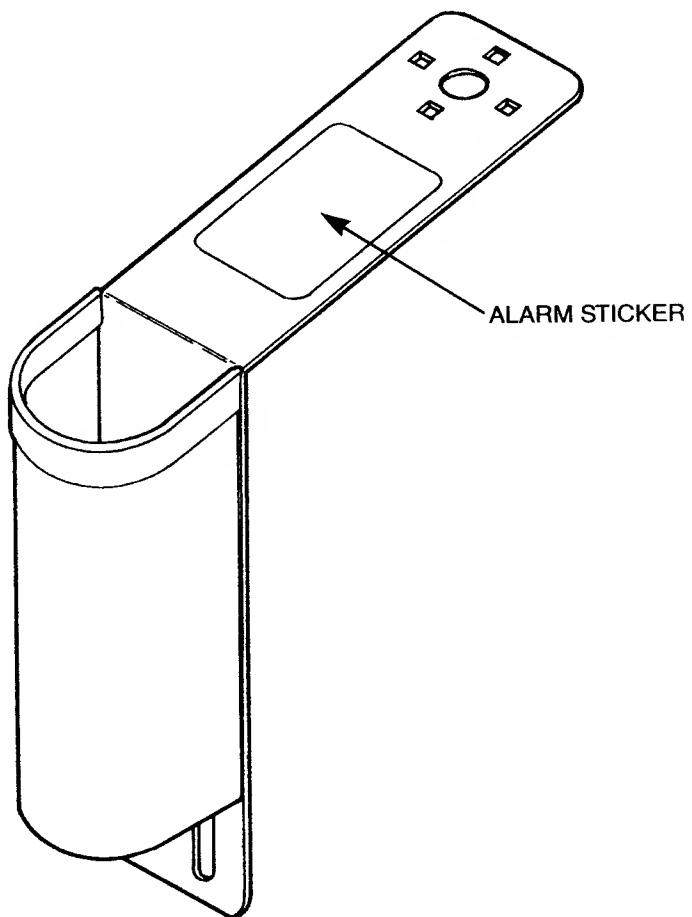


7) Installation of Alarm Sticker and Warning Notice

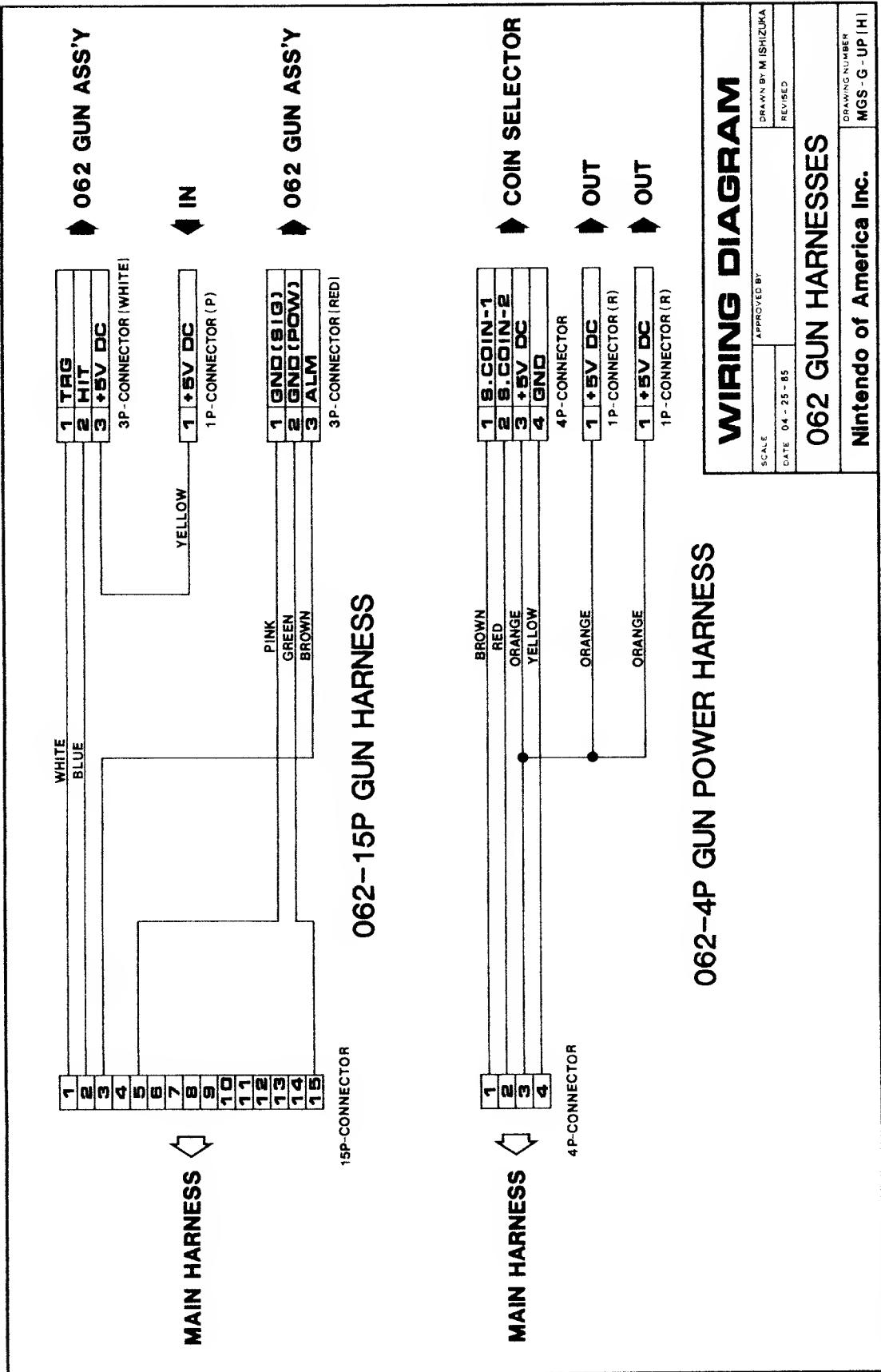
A. Attach the alarm sticker to the holster as shown. (See illustration 1-9)

B. Staple the warning notice to the outside of the backdoor of the cabinet. NOTE: Warning notice should be torn off from back cover of the manual.

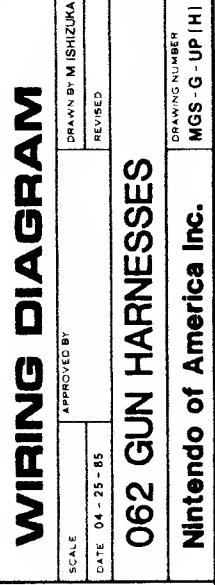
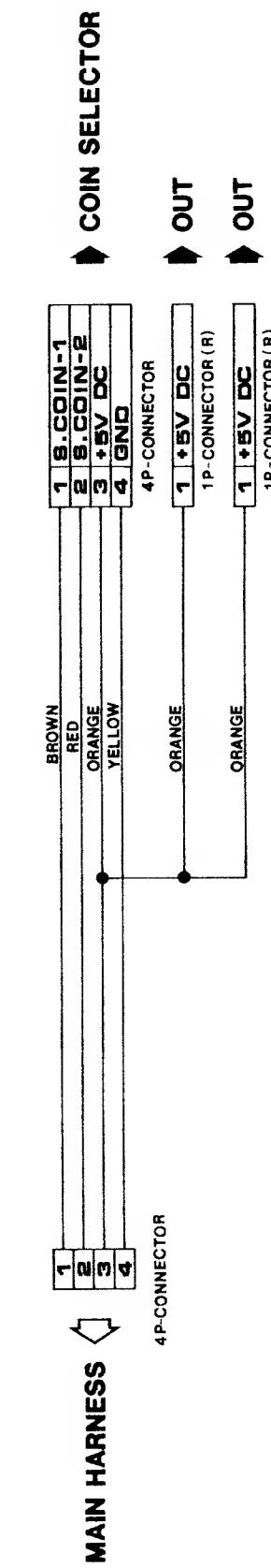
8) Install EPROMS, PPU and graphics per the V.S.-Pak Instruction Sheet.



1-9



062-15P GUN HARNESS



## V. Reorder Parts List

PART NUMBER	DESCRIPTION
MDSG-14-01	Gun
MDSG-11-29	Holster
MDSG-11-30	Cable Clamp Assembly
MDSG-11-32	Holster Bracket
MDSG-11-33	Bracket Plate
MDSG-41-11	062-4A Gun Power Harness
MDSG-41-12	062-15P Short Harness
MDSG-63-11	3mm Hex Wrench
MDSG-11-40	Alarm Sticker
MDSG-63-15	Security Chain Retainer Kit
MDSG-51-18	M5 x 8 Hex Head Cap Screw

## **WARNING**

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1. The gun could be removed from its cable by acts of vandalism and thereafter misused. When the power to the game is "on," an alarm will sound if the gun is removed from its cable or the cable is removed from the cabinet. A warning sticker alerting players to this alarm is posted on the metal holster. Replacement stickers may be obtained from any Nintendo distributor. A security chain may also be attached to the butt of the gun and anchored to the cabinet (see Instruction Manual). The game should be placed where its operation can be monitored at all times.
2. The gun could be mistaken for a real gun. Do not place this game where players operating it or pointing the gun may be mistaken by the police or public.

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# **GUN KIT MANUAL REVISIONS**

## **(FOR VS. SYSTEM TABLE GUN PAKS)**

### **I. Contents of Gun Kit (Revised)**

<u>Parts Name</u>	<u>Qty</u>	<u>Remarks</u>
Gun	1	Complete assembly
Holster	1	
Cable Clamp Assembly	1	
M4 x 6 Hex Head Cap Screw	4	For Cable Clamp Assembly
M5 x 8 Hex Head Cap Screw	2	For Holster Bracket
Holster Bracket	1	
M4 x 15 Carriage Bolts	6	For Gun Clamp Assembly and Holster Bracket
M4 Cap Nuts	6	For Gun Clamp Assembly and Holster Bracket
062-4P Gun Power Harness	1	
062-15P Short Harness	1	
3mm Hex Wrench	1	
Alarm Sticker	1	
Warning Notice	1	
Security Chain Retainer Kit	1	
Chain Retainer G	1	For Gun
Chain Retainer CP	1	For Control Panel
Rivet	1	
Hammer Drive Screw	1	
Gun Kit Manual	1	
Gun Kit Table Revisions	1	

### **II. List of Tools Needed for Installation of Gun (Revised)**

7mm or 8/32" Nut Driver  
Electric Drill  
3/16" Drill Bit  
3mm Hex Wrench (provided)  
Small Wire Cutters

### III. Installation of Gun Assembly (Revised Steps)

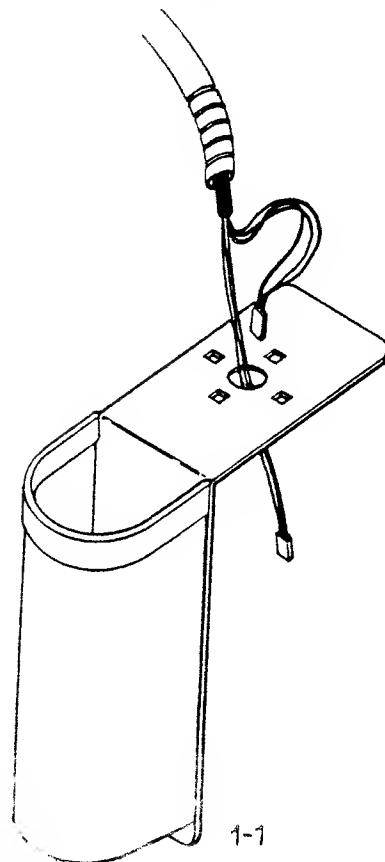
#### CAREFULLY READ ALL STEPS BEFORE BEGINNING

##### 1) Removal of Right Joystick

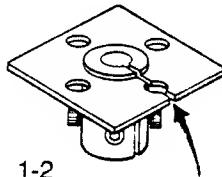
- A. Remove the control panel that the gun will be installed into.
- B. Remove the eight (8) connectors from the right joystick assembly.
- C. Remove the four (4) M4 cap nuts and the joystick assembly.  
NOTE: Save the four (4) M4 cap nuts so you can install the joystick again later.

##### 2) Installation of Gun and Holster to Control Panel

- A. Push the two (2) connectors on the end of the gun cable through the center hole of the holster one at a time. (See illustration 1-1)
- B. Pull about 6" of cable through the hole in the control panel vacated by the joystick.
- C. Slide the individual colored wires through the slot in the cable clamp assembly. (See illustration 1-2)
- D. Push the gun cable into the cable clamp assembly until it contacts the bottom, and secure the cable with four (4) M4 x 6 hex head bolts and the M3 hex wrench provided. (See illustration 1-3)  
NOTE: Please keep M3 hex wrench with game for any future maintenance.
- E. Using four (4) M4 x 15 carriage bolts and M4 cap nuts, bolt the control panel in between the holster and cable clamp assembly. (See illustration 1-4)  
NOTE: If you wish to add the additional security chain, see step 6 on page 7 (of Gun Kit Manual) before continuing.  
Be sure that the holster is perpendicular to the control panel and tighten the four (4) cap nuts securely.

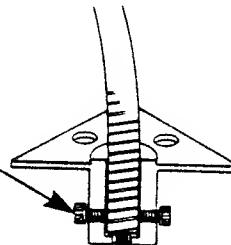


TIGHTEN HEX HEAD SCREWS SECURELY



1-2

NOTE: Be careful not to  
damage wire insulation.

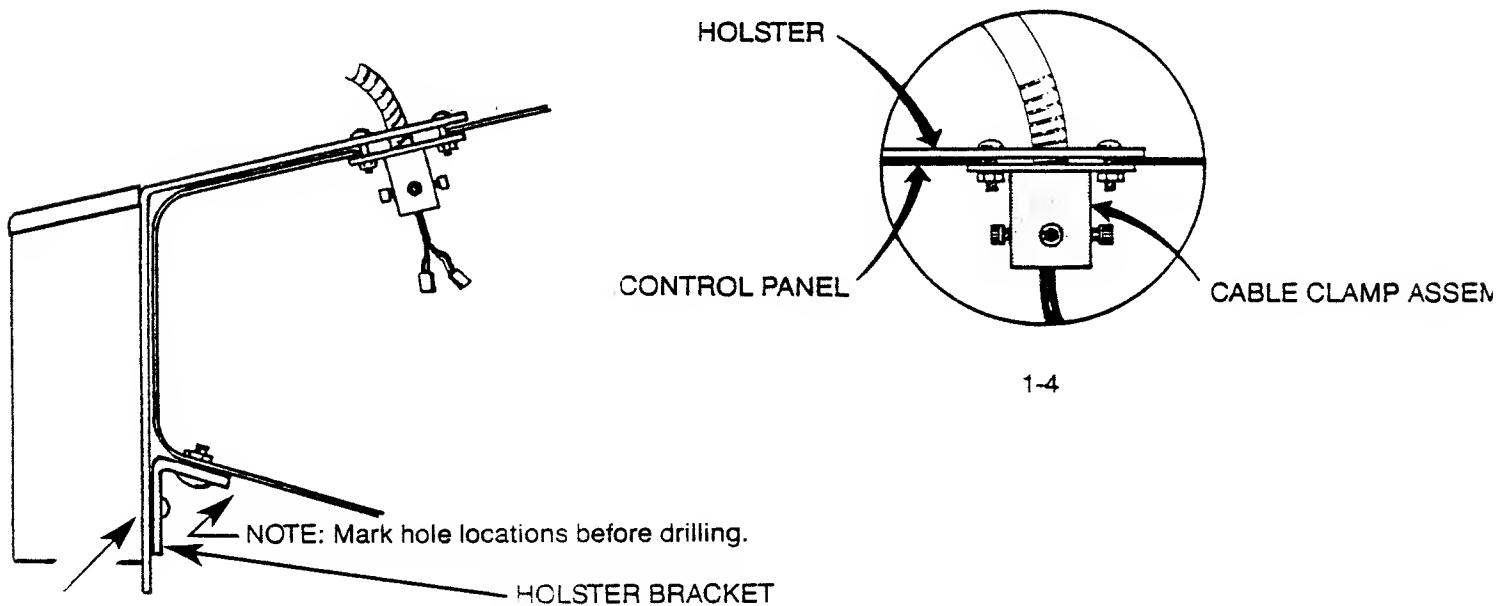


1-3

PUSH WIRES THROUGH SLOT

### 3) Installation of Holster Bracket

- A. Set the control panel in place on the cabinet.
- B. Hold the holster bracket on the bottom of the cabinet. Align the slots in the bracket to the threaded holes in the holster and mark the location of the two square holes on the bottom of the control panel support. (See illustration 1-5)
- C. Remove the control panel and drill two (2) 3/16" holes in locations marked. Using the two (2) M4 x 15 carriage bolts and M4 cap nuts, bolt holster bracket into place. (See illustration 1-5)

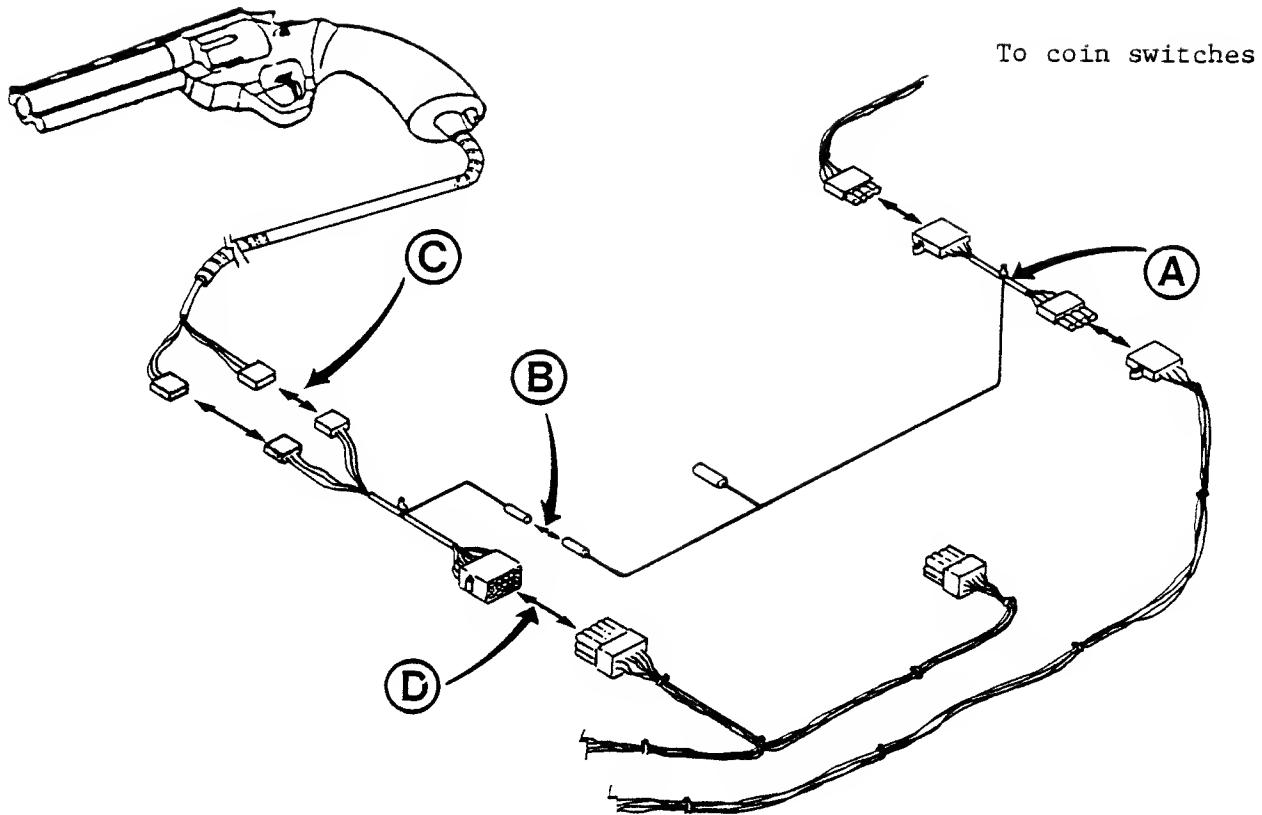


M5 x 8  
HEX HEAD BOLTS

1-5

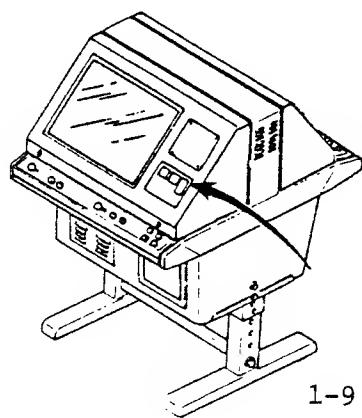
### 4) Installation of Control Panel and Harness

- A. Disconnect the 4 pin coin switch harness and connect the 4 pin gun power harness in between. (See illustration 1-6A)  
NOTE: Be sure to use the 4 pin coin switch harness, not the 4 pin service switch harness.
- B. Connect either of the 1 pin connectors from the gun power harness to the 1 pin connector on the 15 pin short harness. (See illustration 1-6B)
- C. Connect the red 3 pin connector and the white 3 pin connector to the matching connector from the gun. (See illustration 1-6C)
- D. Connect the 15 pin connector to the main control harness. (See illustration 1-6D)
- E. Install the control panel and fasten down with the four (4) machine screws.
- F. Fasten down the holster to the holster bracket with the two (2) M5 x 8 hex head bolts. (See illustration 1-5)



1-6

- 5) Refer to Gun Kit Manual for this Step.
- 6) Refer to Gun Kit Manual for this Step.
- 7) Installation of Alarm Sticker and Warning Notice
  - A. Attach the alarm sticker to the front of cabinet in location shown. (See illustration 1-9)
  - B. Display warning label (last page of Gun Kit Manual) on side of table cabinet.
- 8) Install EPROMS, PPU and graphics per the VS.-Pak Instruction Sheet.



1-9

V. Reorder Parts List (Revised)

<u>Part Number</u>	<u>Description</u>
MDSG-14-01	Gun
MDSG-21-29	Holster - Table Type
MDSG-11-30	Cable Clamp Assembly
MDSG-21-32	Holster Bracket - Table Type
MDSG-41-11	062-4P Gun Power Harness
MDSG-41-12	062-15P Short Harness
MDSG-63-11	3mm Hex Wrench
MDSG-11-40	Alarm Sticker
MDSG-63-15	Security Chain Retainer Kit
MDSG-51-18	M5 x 8 Hex Head Cap Screw

# **GUN KIT MANUAL REVISIONS**

## **For VS. SYSTEM<sup>TM</sup> / PAC-MAN<sup>TM\*</sup> Cabinet**

### **I. Contents of Gun Kit (Revised)**

<u>Parts Name</u>	<u>Qty</u>	<u>Remarks</u>
Gun	1	Complete Assembly
Holster	1	
Cable Clamp Assembly	1	
Cable Clamp Plate (chrome)	1	
M4 x 6 Hex Head Cap Screw	4	For Cable Clamp Assembly
M4 x 15 Carriage Bolts (chrome)	4	For Gun Clamp Assembly
M6 x 30 Carriage Bolts (chrome)	3	For Holster
M6 Cap Nuts	3	For Holster
M4 Cap Nuts	4	For Gun Clamp Assembly
072-4P Gun Power Harness	1	
062-15P Short Harness	1	
3mm Hex Wrench	1	
Alarm Sticker	1	
Warning Notice	1	
Security Chain Retainer Kit	1	
Chain Retainer G	1	For Gun
Chain Retainer CP	1	For Control Panel
Rivet	1	
Hammer Drive Screw	1	
Gun Kit Manual	1	
Gun Kit Pac-Man <sup>TM*</sup> Cabinet Revisions	1	
Sticker Tie Down	1	

### **II. List of Tools Needed for Installation of Gun (Revised)**

10mm Nut Driver  
7mm or 8/32" Nut Driver  
Electric Drill  
1/4" Drill Bit  
3mm Hex Wrench (provided)  
Small Wire Cutters  
Staple Gun

\*Trademark of Bally Midway Mfg. Co.

### III. Installation of Gun Assembly (Revised Steps)

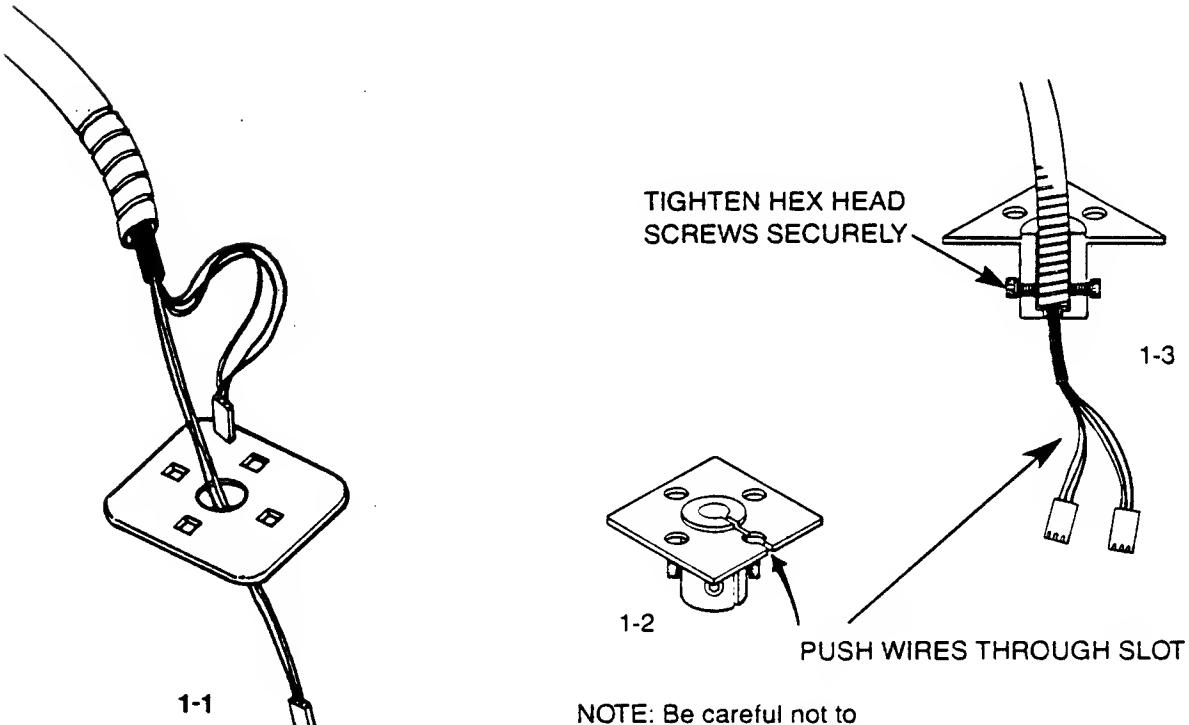
CAREFULLY READ ALL STEPS BEFORE BEGINNING

#### 1) Removal of Right Joystick

- A. Remove the control panel that the gun will be installed into.
- B. Remove the eight (8) connectors from the right joystick assembly.
- C. Remove the four (4) M4 cap nuts and the joystick assembly.
- D. **IMPORTANT:** Reinstall the four (4) carriage bolts and cap nuts in the empty holes.

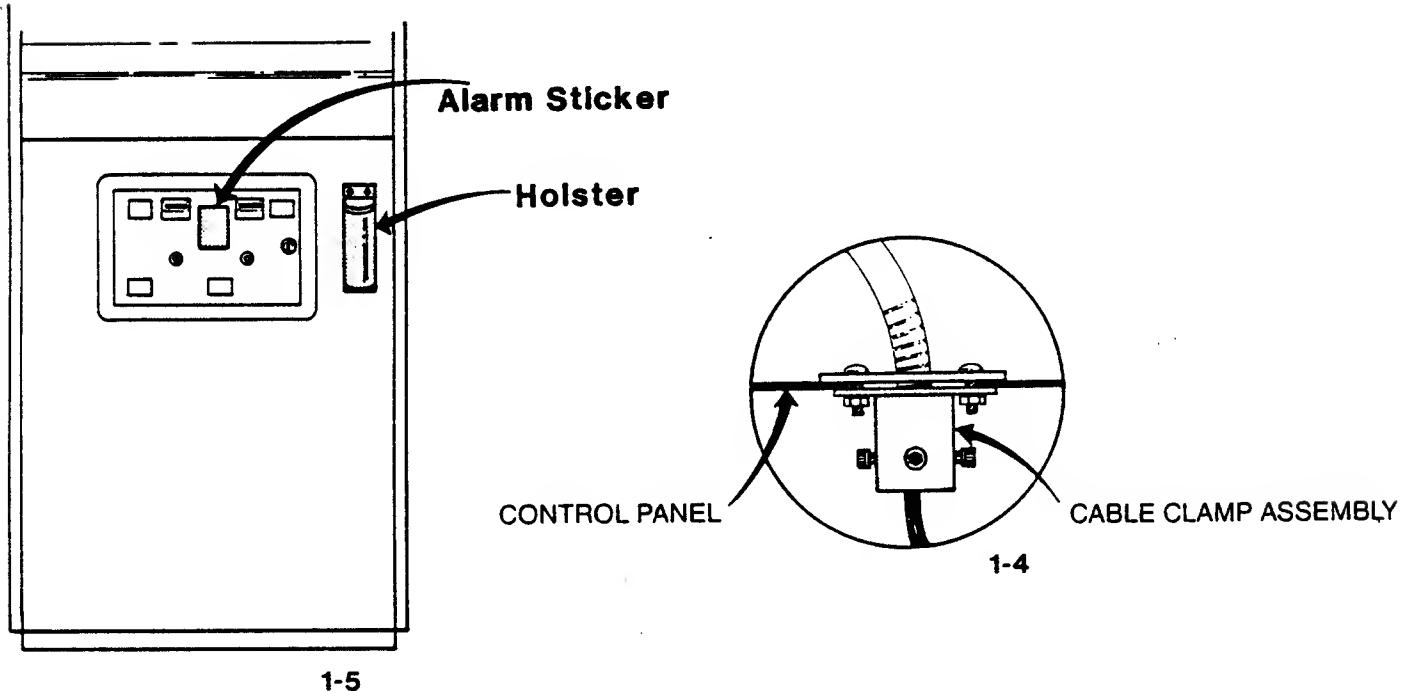
#### 2) Installation of Gun to Control Panel

- A. Push the two (2) connectors on the end of the gun cable through the center hole of the cable clamp plate one at a time. (See illustration 1-1)
- B. Pull about 6" of cable through the hole in the control panel vacated by the joystick.
- C. Slide the individual colored wires through the slot in the cable clamp assembly. (See illustration 1-2)
- D. Push the gun cable into the cable clamp assembly until it contacts the bottom, and secure the cable with four (4) M4 x 16 hex head bolts and the M3 hex wrench provided. (See illustration 1-3) **NOTE:** Please keep M3 hex wrench with game for any future maintenance.
- E. Using four (4) M4 x 15 carriage bolts and M4 cap nuts, bolt the control panel in between the cable clamp plate and cable clamp assembly. (See illustration 1-4) **NOTE:** If you wish to add the additional security chain, see step 6 on page 7 (of Gun Kit Manual) before continuing.



### 3) Installation of Holster

- A. Hold the holster in place just to the right of the coin door and mark the location of the three (3) square holes on the holster. (See illustration 1-5)
- B. Drill three (3) 1/4" holes in locations marked. Using the three (3) M6 x 30 carriage bolts and M6 cap nuts, bolt holster onto the front of the cabinet. (See illustration 1-5)

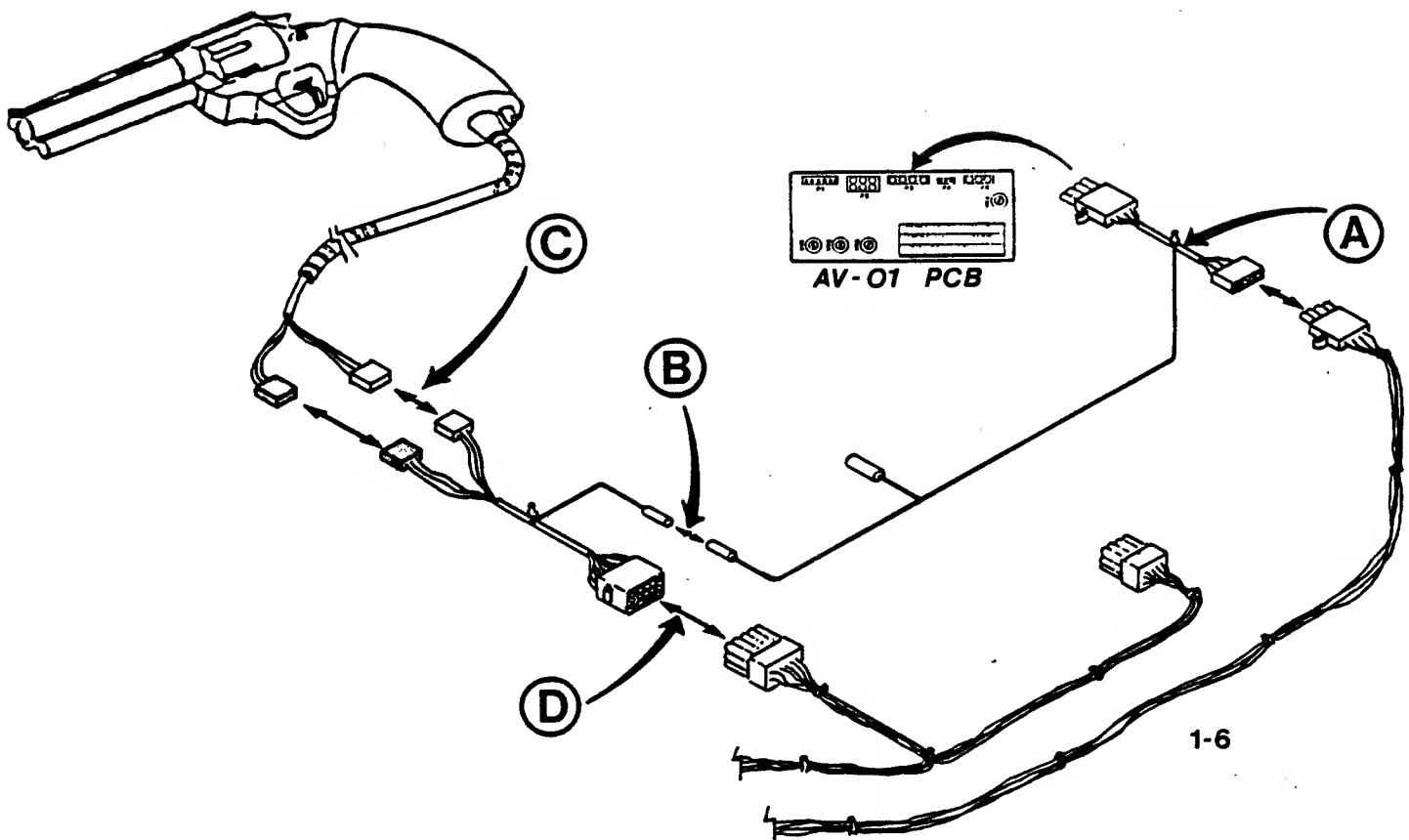


1-5

1-4

### 4) Installation of Control Panel and Harness

- A. Disconnect the 4 pin power-in harness from the AV-01 p.c. board and connect it to the 4 pin gun power harness. Connect the other end of the 4 pin gun power harness into the now vacant connector (P3) on the AV-01 p.c. board. (See illustration 1-6A)
- B. Connect either of the 1 pin connectors from the gun power harness to the 1 pin connector on the 15 pin short harness. (See illustration 1-6B)
- C. Connect the red 3 pin connector and the white 3 pin connector to the matching connector from the gun. (See illustration 1-6C)
- D. Connect the 15 pin connector to the main control harness. (See illustration 1-6D)
- E. Install the control panel and fasten down with the control panel clamps.



- 5) Refer to Gun Kit Manual for This Step.
- 6) Refer to Gun Kit Manual for This Step.
- 7) Installation of Alarm Sticker and Warning Notice.
  - A. Attach the alarm sticker to the front of cabinet in location shown. (See illustration 1-5)
  - B. Staple warning label (last page of Gun Kit Manual) on back door of cabinet.
- 8) Install EPROM's, PPU and graphics per the VS.-Pak Instruction Sheet.

#### V. Reorder Parts List (Revised)

<u>Part Number</u>	<u>Description</u>
MDSG-14-01	Gun
MGSG-31-29	Holster - Pac-Man™ Cabinet
MDSG-11-30	Cable Clamp Assembly
MGSG-31-32	Cable Clamp Plate
MGSG-51-11	072-4P Gun Power Harness
MDSG-41-12	062-15P Short Harness
MDSG-63-11	3mm Hex Wrench
MDSG-11-40	Alarm Sticker
MDSG-63-15	Security Chain Retainer Kit
MDSG-51-18	M5 x 8 Hex Head Cap Screw